OPTIKA
MICROSCOPES
ITALY

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CL-15.1

OPERATION MANUAL

INDEX

1.0 DESCRIPTION	pag. 3
2.0 INTRODUCTION	pag. 4
3.0 UNPACKING AND ASSEMBLY	pag. 5
4.0 USING THE ILLUMINATOR	pag. 6
5.0 TECHNICAL SPECIFICATIONS	pag 7
6.0 RECOVERY AND RECYCLING	pag 8

LOCKING SCREWS
ON/OFF SWITCH
POWER SUPPLY
LED ILLUMINATOR
ILLUMINATION MODE SWITCH
LIGHT INTENSITY ADJUSTMENT
FIXING RING

This instrument is a scientific precision instrument designed to last for many years with a minimum of maintenance. It is built to high optical and mechanical standards and to withstand daily use.
Optika reminds you that this manual contains important information on safety and maintenance, and that it must therefore be made accessible to the instrument users.
Optika declines any responsibility deriving from instrument uses that do not comply with this manual.

2.1 Safety guidelines

This manual contains important information and warnings regarding safety about installation, use and maintenance of the instrument. Please read this manual carefully before using the equipment. To ensure safe use, the user must read and follow all instructions in this manual. OPTIKA products are designed for safe use in normal operating conditions. The equipment and accessories described in the manual are manufactured and tested according to industry standards for safety instrumentation laboratory. Misuse can cause personal injury or damage to the instrument. Keep this manual at hand close to the instrument, for an easy consultation.

2.2 Electrical safety

Before connecting the power cord to wall outlet, ensure that your mains voltage for your region corresponds to the voltage supply of the instrument, and that the illuminator's switch is in position OFF. The user must observe the safety regulations in force in his region. The instrument is equipped with CE safety marking, in any case the user has full responsibility concerning the safe use of that instrument.

2.3 Warning/Caution symbols used in this manual

The user should be aware of safety aspects when using the instrument. Warning or hazard symbols are shown below. These symbols are used in this manual.

The instructions on this symbol to avoid possible severe personal injuries.

Warning of use; the incorrect operation on the instrument can cause damages to the person or instrument.

Possibility of electric shock.

Attention: high temperature surfaces. Avoid direct contact.

Technical notes or usage tips.

Extract the illuminator from its packaging. Keep it away from solvents, chemical vapors and excessive moisture. Avoid high temperature environments, the direct sunshine and excessive vibrations, which could affect the performance of the instrument.

3.1 Operating environment

Temperature: : 10 - 36°C (50 – 96.8°F)
Relative humidity: 0 – 85% up to 30°C (86°F)

3.2 Installing the illuminator

Screw the fixing ring on the bottom of the Stereo head.

Place the illumanator on the fixing ring, using the three locking screws.

3.4 Connect the power supply to to wall socket

WARNING

The power supply should be used only on network sockets equipped with adequate grounding.

Always disconnect the power supply from the illuminator when not in use for long time, while you clean it or when you perform any maintenance.

WARNING

AVOID DISASSEMBLING THE INSTRUMENT

Do not disassemble the instrument. This entails the cancellation of the warranty and may cause malfunction.

4.1 Use ON/OFF switch to turn the LEDs on.

4.2 Use the Arrow buttons to adjust the light intensity.

4.3 Use MODE switch to cycle between illumination modes:

- Full circle illumination

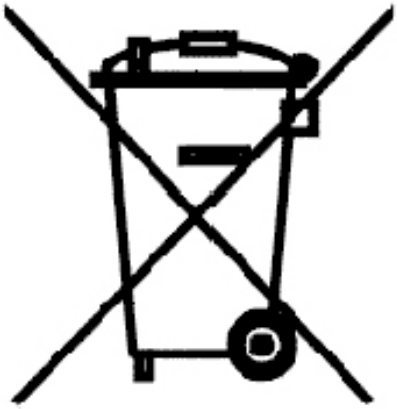
- Half circle illumination

- Quarter circle illumination

5.0 TECHNICAL SPECIFICATIONS

Description:	LED ring light illuminator
Illumination:	Cold White LEDs (72 single LEDs). Intensity: 20000 lux at 100mm working distance. Colour temperature: 6400K Input voltage: 110/230Vac, 50/60Hz. Maximum power: 5W
Accessories:	Power supply, fixing ring and user manual included.

Art.13 Dlsg 25 july 2005 N°151. “According to directives 2002/95/EC, 2002/96/EC and 2003/108/EC relating to the reduction in the use of hazardous substances in electrical and electronic equipment and waste disposal.”



The basket symbol on equipment or on its box indicates that the product at the end of its useful life should be collected separately from other waste.

The separate collection of this equipment at the end of its lifetime is organized and managed by the producer. The user will have to contact the manufacturer and follow the rules that he adopted for end-of-life equipment collection. The collection of the equipment for recycling, treatment and environmentally compatible disposal, helps to prevent possible adverse effects on the environment and health and promotes reuse and/or recycling of materials of the equipment. Improper disposal of the product involves the application of administrative penalties as provided by the laws in force.

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